					DEPARTMEN ⁻	T OF NA	OF UTAH ATURAL RESO GAS AND M				AMENI	FO DED REPOR	RM 3	
		AP	PLICATION F	OR P	PERMIT TO DRILL					1. WELL NAME and N		2-13D4BS		
2. TYPE O	F WORK	DRILL NEW WELL	REENTE	R P&A	WELL DEEPEN	I WELL [)			3. FIELD OR WILDCA	r NATURAL	.BUTTES		
4. TYPE O	F WELL				ed Methane Well: NO					5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	IE
6. NAME C	F OPERATOR				AS ONSHORE, L.P.					7. OPERATOR PHONE				
8. ADDRE	SS OF OPERATO	OR								9. OPERATOR E-MAIL	L			
	AL LEASE NUM	BER	P.O. Box 1737		nver, CO, 80217 11. MINERAL OWNERS	SHIP				12. SURFACE OWNER		anadarko	.com	
		ST UO 8512 ST			FEDERAL INC	DIAN 🦲) STATE (I) FEE(DIAN 🦲	STATE	~	EE 💮
13. NAME	OF SURFACE	OWNER (if box 12 :	= 'fee')							14. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNER	R E-MAIL	(if box 12	= 'fee')	
	N ALLOTTEE OI = 'INDIAN')	R TRIBE NAME			18. INTEND TO COMM MULTIPLE FORMATIO		PRODUCTION	FROM		19. SLANT				
(II box 12	= INDIAN)				YES (Submit C	Comming	gling Application	on) NO	\circ	VERTICAL DIF	RECTION	AL 📵 H	IORIZONT	AL 🔵
20. LOCA	TION OF WELL			FOC	OTAGES	QT	TR-QTR	SEC.	TION	TOWNSHIP	R	ANGE	МЕ	RIDIAN
LOCATIO	N AT SURFACE		190	67 FNL	_ 2537 FWL	,	SENW	1:	3	10.0 S	2:	2.0 E		S
Top of U	ppermost Prod	ucing Zone	6	74 FNL	824 FWL	N	WNW	1:	3	10.0 S	2:	2.0 E		S
At Total	Depth		6	74 FNL	824 FWL	N	WNW	1:	3	10.0 S	2:	2.0 E		S
21. COUN	TY	UINTAH			22. DISTANCE TO NEA		EASE LINE (F	eet)		23. NUMBER OF ACRI	ES IN DR		IT	
					25. DISTANCE TO NEA (Applied For Drilling	or Comp		POOL		26. PROPOSED DEPTI		TVD: 842	5	
27. ELEV	ATION - GROUN	D LEVEL		7	28. BOND NUMBER					29. SOURCE OF DRIL WATER RIGHTS APPR			PPI ICAR	ıF
		5259					13542				43-8			
String	Hole Size	Casing Size	Length	Wei	Hole, Casing		Max Mu			Cement		Sacks	Yield	Weight
Surf	11	8.625	0 - 2230	28	_		0.2			Type V		180	1.15	15.8
										Class G		270	1.15	15.8
Prod	7.875	4.5	0 - 8869	11	.6 HCP-110 L	_T&C	12.	0	Prer	nium Lite High Strer	ngth	280	3.38	12.0
										50/50 Poz		1250	1.31	14.3
					А	TTACH	HMENTS							
	VER	IFY THE FOLLO	WING ARE A	TACI	HED IN ACCORDAN	ICE WI	TH THE UTA	AH OIL AI	ND GAS	CONSERVATION G	ENERA	L RULES		
₩ w	ELL PLAT OR M	AP PREPARED BY I	LICENSED SUR	/EYOR	OR ENGINEER		сом	PLETE DR	ILLING P	LAN				
AF	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREE	MENT	(IF FEE SURFACE)		FORM	1 5. IF OPE	RATOR I	S OTHER THAN THE LE	EASE OW	NER		
☑ DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY C	R HOF	RIZONTALLY DRILLED))	торо	GRAPHIC	AL MAP					
NAME Ca	ara Mahler			Т	FITLE Regulatory Analy	/st I	1		PHONE	720 929-6029				
SIGNATU	RE				DATE 05/03/2013				EMAIL	cara.mahler@anadarko	o.com			
	BER ASSIGNED 04753731(0000		A	APPROVAL				Br	00.64111				
									Pern	nit Manager				

NBU 1022-13F PAD Drilling Program

1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-13D4BS

Surface: 1967 FNL / 2537 FWL SENW BHL: 674 FNL / 824 FWL NWNW

Section 13 T10S R22E

Uintah County, Utah Mineral Lease: UT ST UO 8512 ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,013'	
Birds Nest	1,273'	Water
Mahogany	1,780'	Water
Wasatch	4,076'	Gas
Mesaverde	6,287'	Gas
Sego	8,425'	Gas
TVD	8,425'	
TD	8,869'	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program

Evaluation Program:

Please refer to the attached Drilling Program

NBU 1022-13F PAD

Drilling Program
2 of 7

7. <u>Abnormal Conditions</u>:

Maximum anticipated bottom hole pressure calculated at 8425' TVD, approximately equals 5,139 psi 0.61 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,308 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

NBU 1022-13F PAD Drilling Program 3 of 7

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

NBU 1022-13F PAD

Drilling Program

4 of 7

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

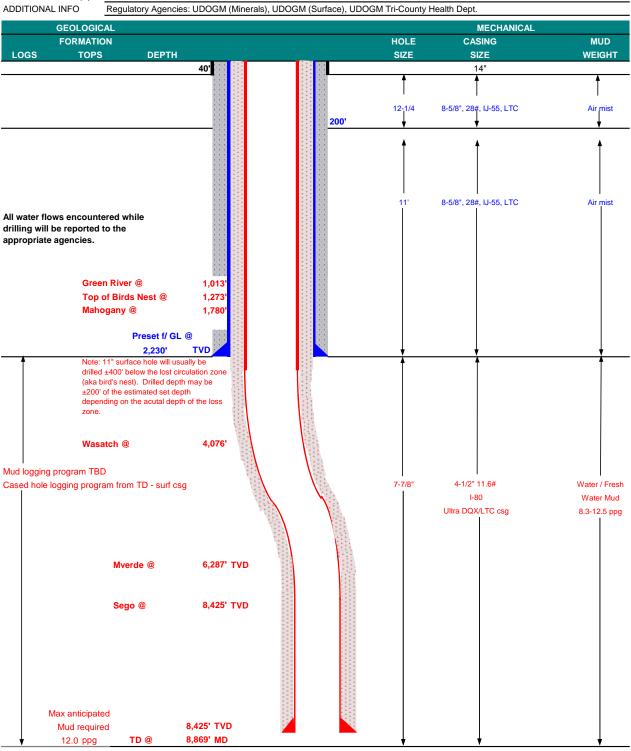
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KER	R-McGEE O	L & GAS ONSI	HORE LP	DATE	April 2	2, 2013	
WELL NAME NB	J 1022-13	D4BS		TD	8,425'	TVD	8,869' MD
FIELD Natural Butte	S	COUNTY	' Uintah ST	ATE Utah	FIN	SHED ELEVATIO	ON 5258.5
SURFACE LOCATION	SENW	1967 FNL	2537 FWL	Sec 13 T 10S	R 22E		
	Latitude:	39.950833	Longitude:	-109.387846		NAD 27	
BTM HOLE LOCATION	NWNW	674 FNL	824 FWL	Sec 13 T 10S	R 22E		
	Latitude:	39.954394	Longitude:	109.394123		NAD 27	<u></u>
OBJECTIVE ZONE(S)	Wasatch/M	esaverde					
ADDITIONAL INFO	Regulatory	Agencies: UDC	OGM (Minerals), I	JDOGM (Surface), L	JDOGM Tri-Co	ounty Health Dept.	





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAI	<u>M</u>								DESIGN	FACTORS	
										LTC	DQX
	SIZE	INTE	RVAL		WT.	GR.	CPLG.	BURST	COLL	APSE	TENSION
CONDUCTOR	14"	0	-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,230	28.00	IJ-55	LTC	2.43	1.80	6.36	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.21		3.18
								7,780	6,350	223,000	267,035
	4-1/2"	5,000	to	8,869'	11.60	I-80	LTC	1.11	1.21	6.08	

Surface Casing:

(Burst Assumptions: TD =

12.0

.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGI	HT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1		+ 0.25 pps flocele					
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
		+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to	surface, op	tion 2 will b	e utilized		
Option 2 LEAD	1,730'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00		3.82
		+ 0.25 pps Flocele + 3% salt BWOW					
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
		+ 0.25 pps flocele					
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION LEAD	3,569'	Premium Lite II +0.25 pps celloflake + .4% FL-52	280	35%	12.00		3.38
		+ .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II +					
		1.2% Sodium Metasilicate + .05 lbs/sk Static Free					
TAIL	5,300'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free	1,250	35%	14.30		1.31
		+ 1.2% Sodium Metasilicate + .5 % EC-1					
		+.002 gps FP-6L + 2% Bentonite II					

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

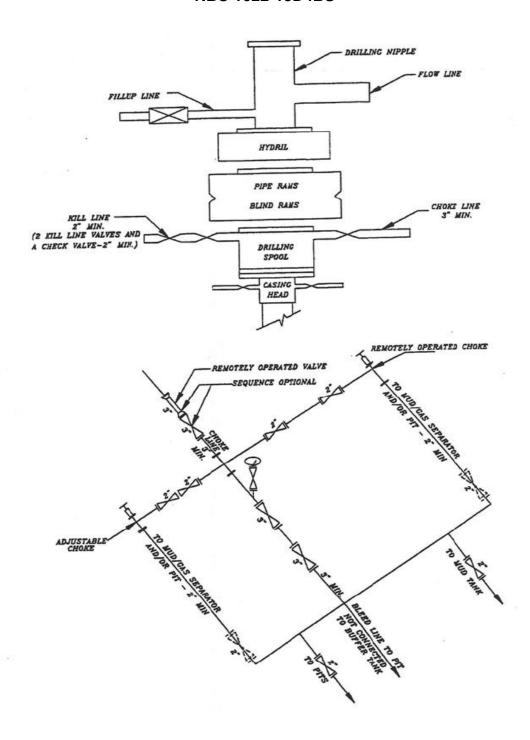
DRILLING ENGINEER:		DATE:
	Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott	
DOLLING SUDEDINTENDENT.		DATE:

Kenny Gathings / Lovel Young

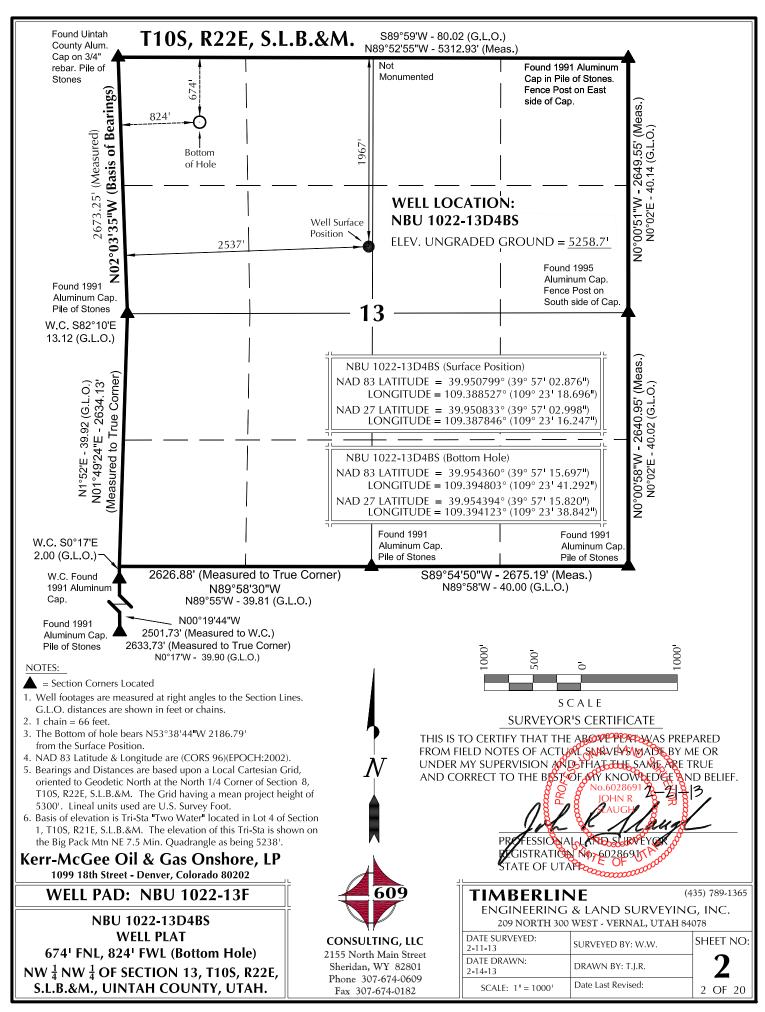
RECEIVED: April 29, 2013

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

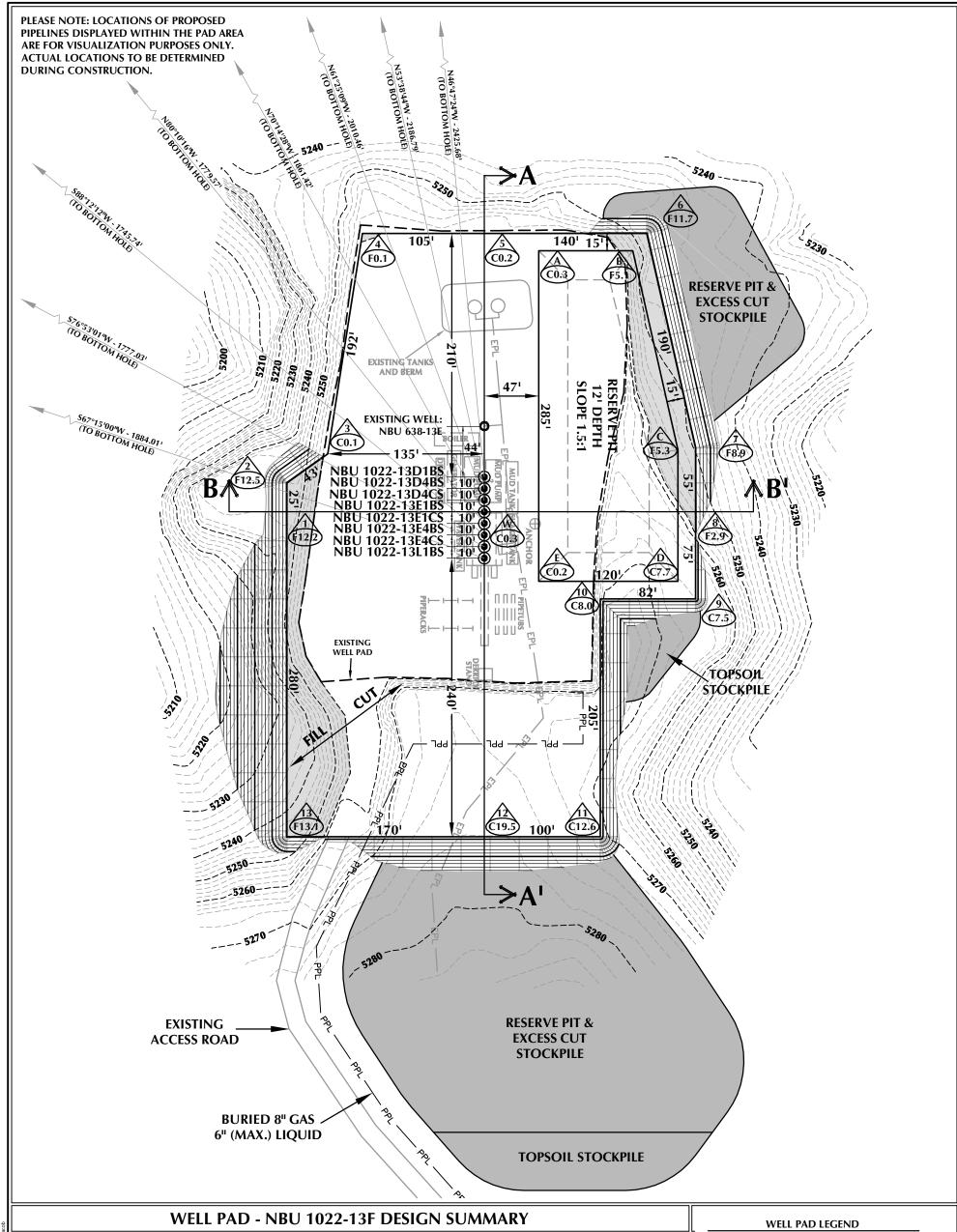
EXHIBIT A NBU 1022-13D4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



			SURFACE POS	SITION						ВОТ	ГТОМ НОСЕ		
WELL NAME		D83	JDE LATITU	NAD27	TILIDE	EOOTA CEC	1 4 717	NAE		E .	NAD		EOOTA CEC
NBU	39°57'02.950	LONGITU 109°23'18.			ITUDE '16.332"	1959' FNL	LATIT 39°57'1		109°23'41.46	_	LATITUDE 9°57'19.496"	LONGITUDE 109°23'39.010"	FOOTAGES 302' FNL
1022-13D1BS NBU	39.950819° 39°57'02.876	109.38855	0° 39.95085	4° 109.38	7870°	25311 FWL	39.9553 39°57'1		109.394850° 109°23'41.29	39	9.955415°	109.394169°	824' FWL
NBU 1022-13D4BS	39°57'02.876 39.950799°	" 109°23'18. 109.38852	000	1.00 =0	'16.247" 7846°	1967' FNL 2537' FWL	39°57'1 39.9543		109°23'41.29 109.394803°	_	9°57'15.820" 9.954394°	109°23'38.842" 109.394123°	674' FNL 824' FWL
NBU 1022-13D4CS	39°57'02.801 39.950778°	" 109°23'18.	611" 39°57'02.	924" 109°23	'16.163"	1974' FNL 2544' FWL	39°57'1 39.9534		109°23'41.26 109.394796°	- 1	9°57'12.441" 9.953456°	109°23'38.816" 109.394115°	1016' FNL 814' FWL
NBU	39°57'02.727		527" 39°57'02.	850" 109°23	16.078"	1982' FNL	39°57'0	8.958	109°23'41.00	9" 39	9°57'09.081"	109°23'38.559"	1356' FNL
1022-13E1BS NBU	39.950758° 39°57'02.653	109.38848 109°23'18.			7800° '15.994"	2550' FWL 1989' FNL	39.9524 39°57'0		109.394725° 109°23'40.94	_	9.952523° 9°57'05.791"	109.394044° 109°23'38.499"	822' FWL 1689' FNL
1022-13E1CS	39.950737°	109.38845	6° 39.95077	1° 109.38	7776°	2556¹ FWL	39.9515	574°	109.394708°	39	9.951609°	109.394027°	815' FWL
NBU 1022-13E4BS	39°57'02.578 39.950716°	" 109°23'18. 109.38843		=-	'15.909" 7753°	1997' FNL 2563' FWL	39°57'0 39.9505		109°23'40.75 109.394655°	~	I	109°23'38.308" 109.393974°	2055' FNL 817' FWL
NBU 1022-13E4CS	39°57'02.504 39.950696°	" 109°23'18.	273" 39°57'02.	627" 109°23	15.825"	2004' FNL	39°56'5 39.9495		109°23'40.49		9°56'58.656"	109°23'38.044"	2411' FNL
NBU	39°57'02.430	109.38840 109°23'18.			15.740"	2569' FWL 2012' FNL	39°56'5		109.394582° 109°23'40.50	_		109.393901° 109°23'38.050"	825' FWL 2559' FSL
1022-13L1BS	39.950675° 39°57'03.276	109.38838 " 109°23'19.			7706° '16.702"	2575' FWL 1926' FNL	39.9486	579°	109.394583°	39	9.948713°	109.393903°	818' FWL
NBU 638-13E	39.950910°	109.38865	3° 39.95094	4° 109.38	7973°	2503' FWL							
MATERIA NIA MATE	NORTH	FACE				From Surface				-	34/511 31434	F NORTH	FACT
WELL NAME NBU	1660.8 ¹	-1768.0	WELL NAME NBU	1296.31	-1761	NIDII	NAME	961			WELL NAM NBU	E NORTH 629.31	EAST -1751.8
1022-13D1BS			1022-13D4BS			1022-1	NAME				1022-13E1B WELL NAM	S	
NBU NAME	303.8 ¹	-1753.4	WELL NAME NBU	NORTH -54.7'	-1744	NIDII	NAME	NOR			NBU NAM	F NORTH -728.6	-1737.4
1022-13E1CS	303.0	-17 33.4	1022-13E4BS	-54.7	-17 44	1022-1	3E4CS		-1/30	.′	1022-13L1B	s -720.0	-1737.4
A. N80°1 (To E1 Az= S88°12	Z=279.828 0'16"W - 17 268.20333 1'12"W - 17 35 Bottom	89° 1779.57' Hole)	N70°14'28 Az=289.	/ / / /	\	ENSTRUMENT OF TO	THE TO SO	638134 1007.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.7.1907.	BS PAROLINA 304 BS PAROLINA 305 BS PAROLINA 306 BS PAROLINA 307 BS PAR	18 STAN TO THE PARTY OF THE PAR	ASIS OF REAL	ARINGS IS THE	N N
AZ= \$76°5			•				一页			LI	INE OF THE	ARINGS IS THE NW ½ OF SEC	



EXISTING GRADE @ CENTER OF WELL PAD = 5258.81
FINISHED GRADE ELEVATION = 5258.51
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 4.23 ACRES
TOTAL DISTURBANCE AREA = 6.38 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-13F

WELL PAD - LOCATION LAYOUT
NBU 1022-13D1BS, NBU 1022-13D4BS,
NBU 1022-13D4CS, NBU 1022-13E1BS,
NBU 1022-13E1CS, NBU 1022-13E4BS,
NBU 1022-13E4CS & NBU 1022-13L1BS
LOCATED IN SECTION 13, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



2155 North Main Street

Sheridan, WY 82801

Phone 307-674-0609 Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 20,087 C.Y. TOTAL FILL FOR WELL PAD = 13,191 C.Y. TOPSOIL @ 6" DEPTH = 1,684 C.Y. EXCESS MATERIAL = 6,896 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT +/- 10,800 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 41,360 BARRELS

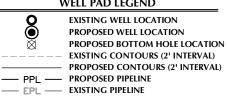
TIMBERLINE

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

SCALE:

REVISED:



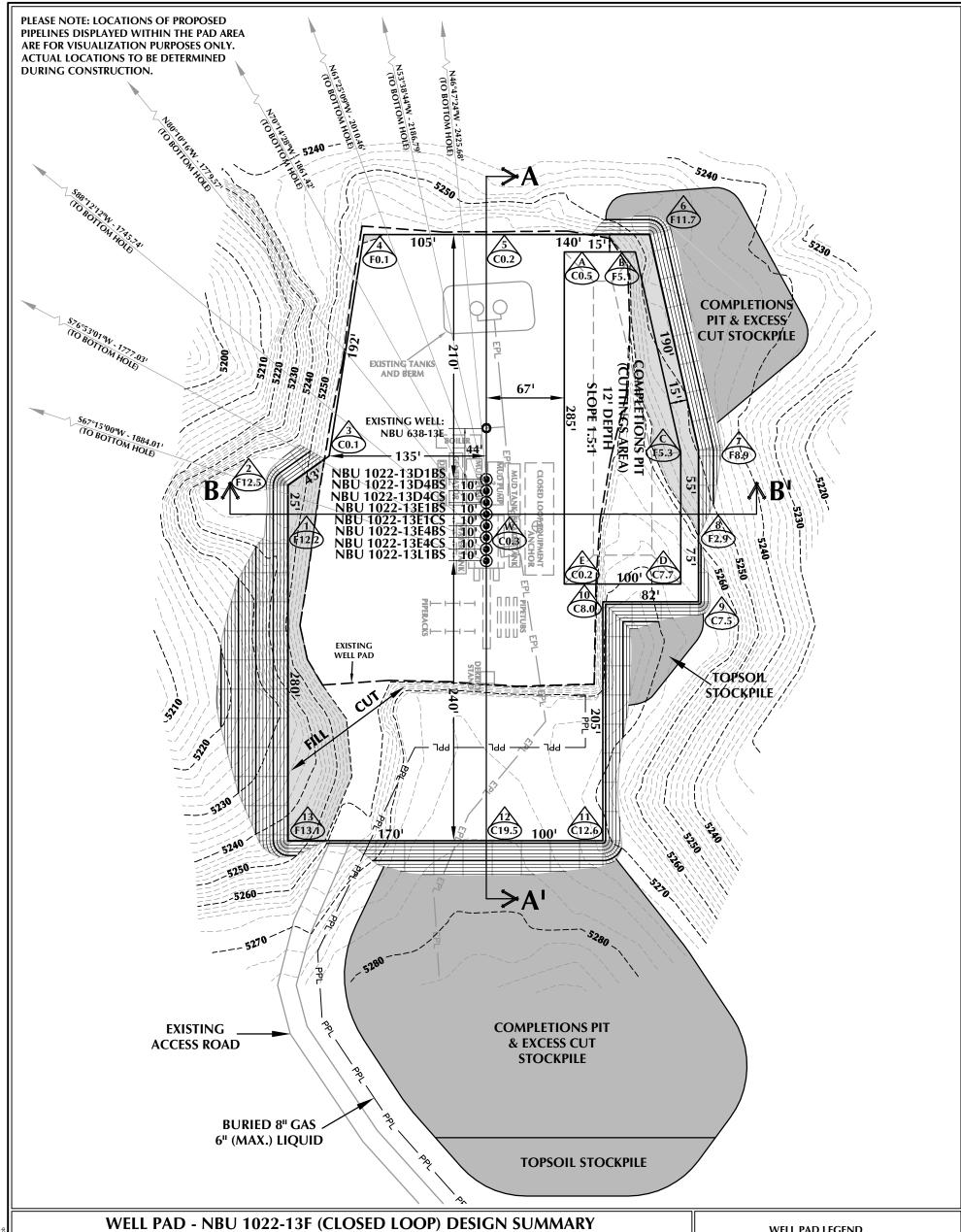


1"=80' DATE:

HORIZONTAL 0 40' 80' 1" = 80'

21 CONTOURS

2/22/13 SHEET NO: 10 OF 20



EXISTING GRADE @ CENTER OF WELL PAD = 5258.81 FINISHED GRADE ELEVATION = 5258.51 **CUT SLOPES = 1.5:1** FILL SLOPES = 1.5:1**TOTAL WELL PAD AREA = 4.23 ACRES TOTAL DISTURBANCE AREA = 6.38 ACRES SHRINKAGE FACTOR = 1.10 SWELL FACTOR = 1.00**

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-13F

WELL PAD - LOCATION LAYOUT NBU 1022-13D1BS, NBU 1022-13D4BS, NBU 1022-13D4CS, NBU 1022-13E1BS, NBU 1022-13E1CS, NBU 1022-13E4BS, NBU 1022-13E4CS & NBU 1022-13L1BS LOCATED IN SECTION 13, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH



2155 North Main Street

Sheridan, WY 82801

Phone 307-674-0609 Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 20,087 C.Y. TOTAL FILL FOR WELL PAD = 13,191 C.Y. TOPSOIL @ 6" DEPTH = 1,684 C.Y. EXCESS MATERIAL = 6,896 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT +/- 8,430 C.Y. **COMPLETIONS PIT CAPACITY** (21 OF FREEBOARD) +/- 31,960 BARRELS

TIMBERLINE

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

SCALE:

REVISED:

WELL PAD LEGEND



EXISTING WELL LOCATION PROPOSED WELL LOCATION PROPOSED BOTTOM HOLE LOCATION EXISTING CONTOURS (2' INTERVAL) PROPOSED CONTOURS (21 INTERVAL)

— PPL — PROPOSED PIPELINE — EPL — EXISTING PIPELINE



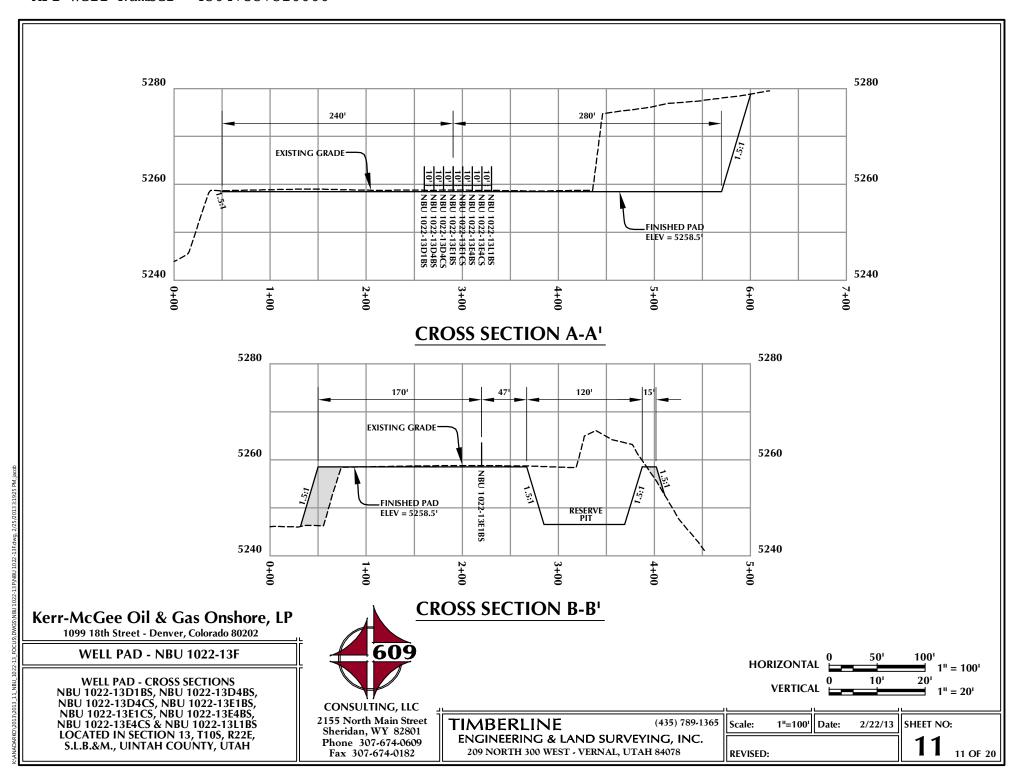
80¹ 1" = 80' HORIZONTAL E

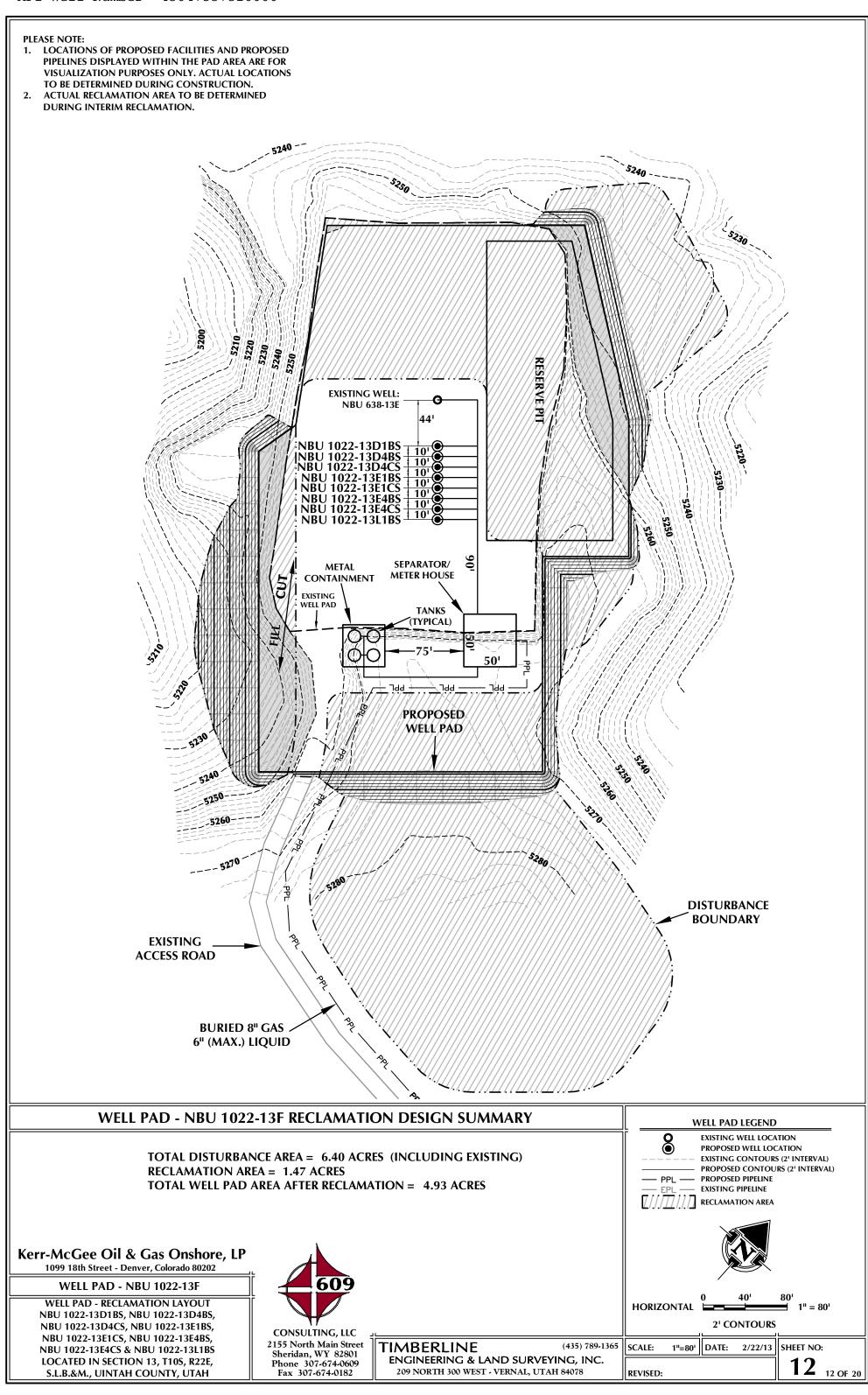
1"=80' DATE:

21 CONTOURS

2/22/13 | SHEET NO:

 $10B_{\scriptscriptstyle 10B~OF\underline{20}}$





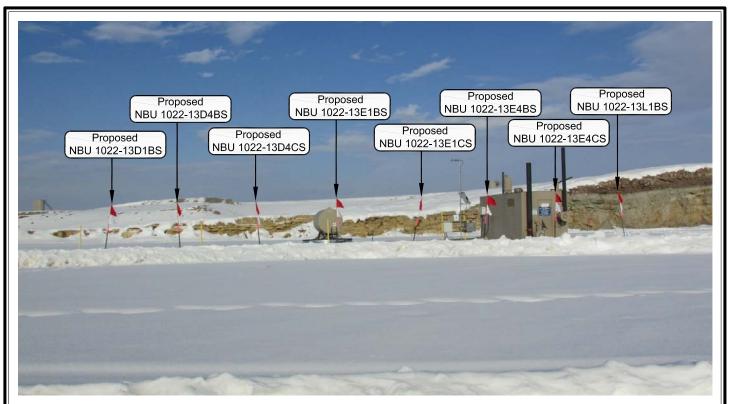


PHOTO VIEW: FROM CORNER #2 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-13F

LOCATION PHOTOS NBU 1022-13D1BS, NBU 1022-13D4BS, NBU 1022-13D4CS, NBU 1022-13E1BS, NBU 1022-13E1CS, NBU 1022-13E4BS, NBU 1022-13E4CS & NBU 1022-13L1BS LOCATED IN SECTION 13, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC

2155 North Main Street Sheridan, WY 82801 Phone 307-674-0609 Fax 307-674-0182

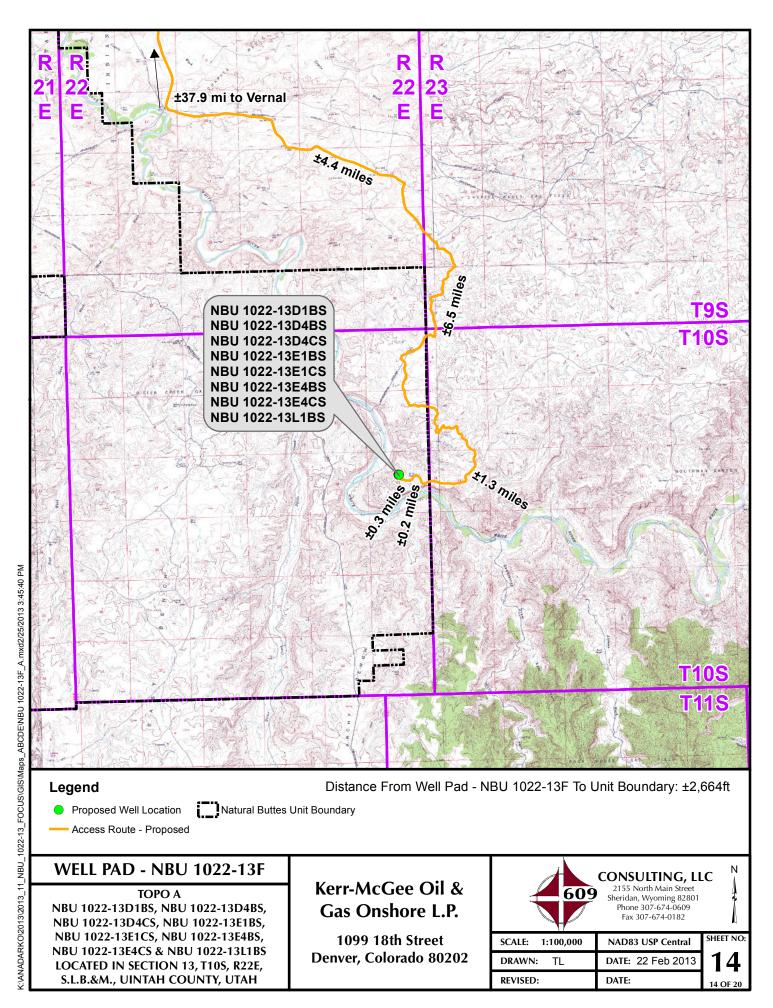
TIMBERLINE ENGINEERING & LA
ENGINEERING & L

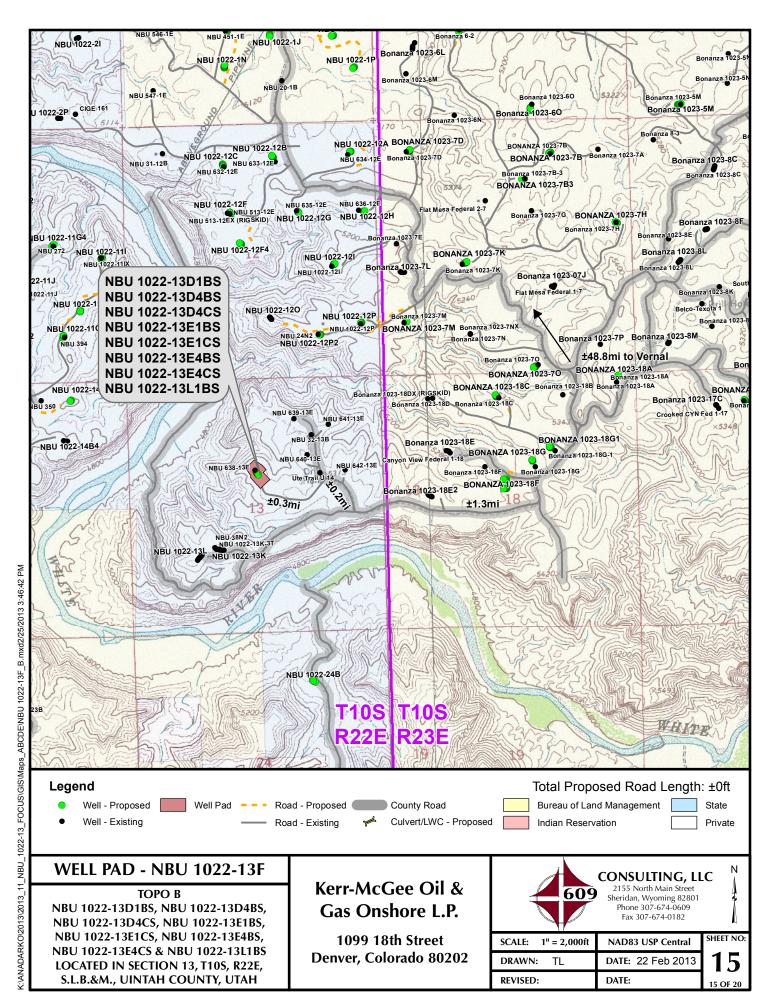
(435) 789-1365

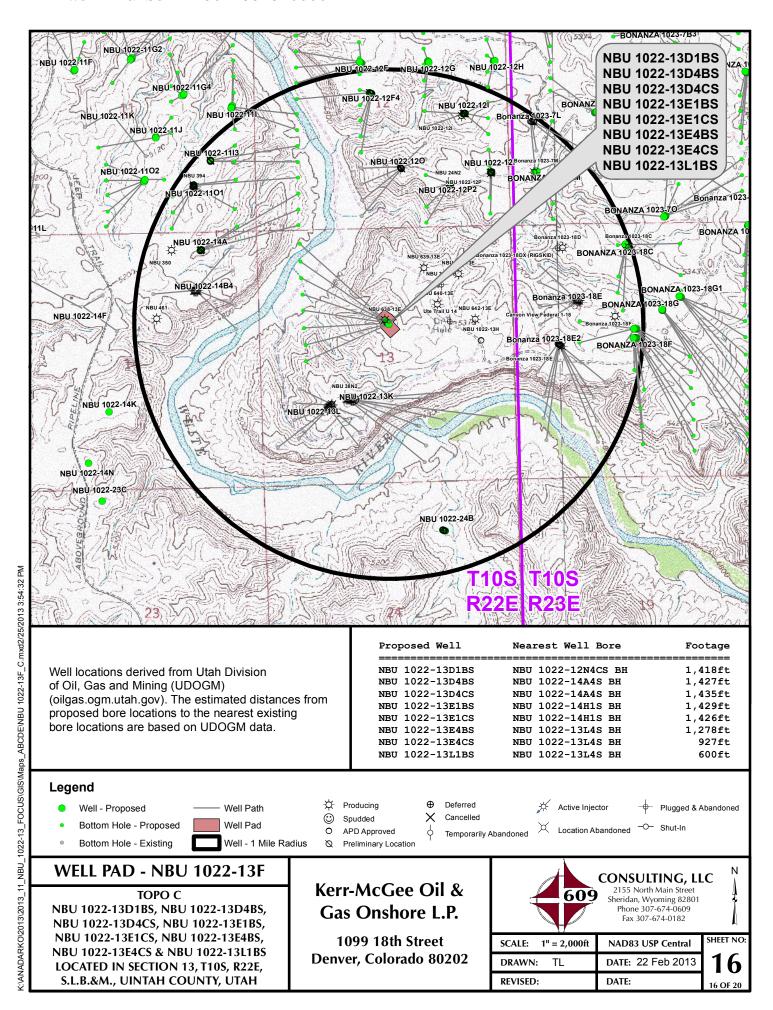
13 OF 20

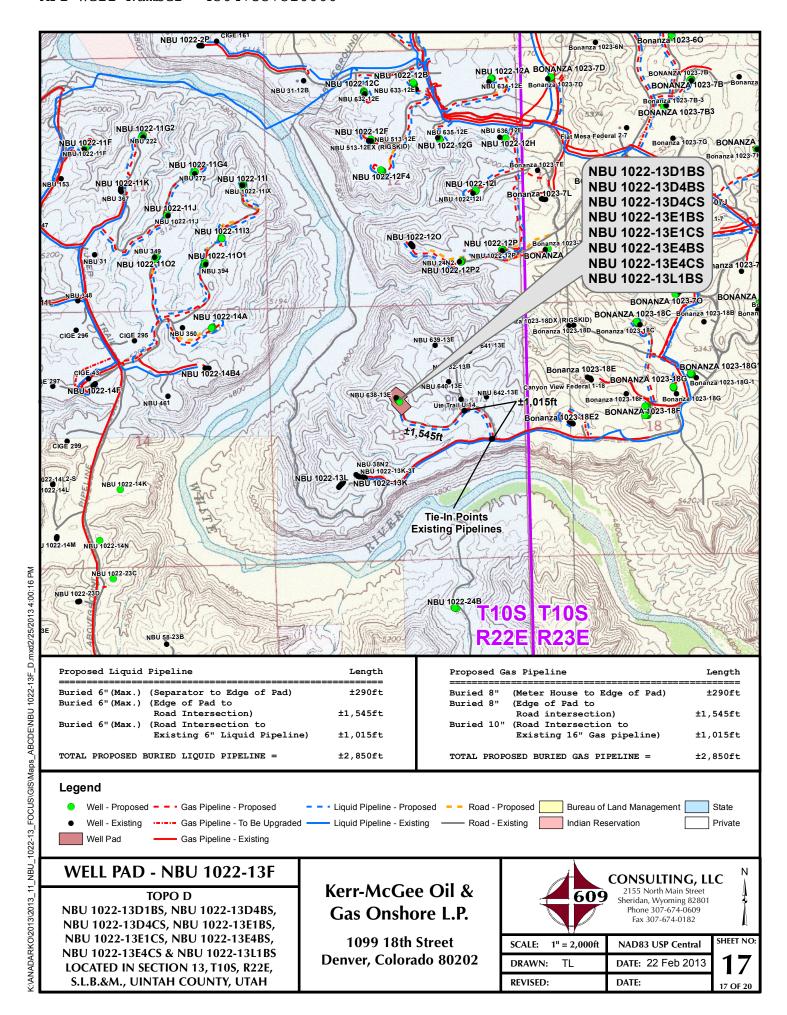
AND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

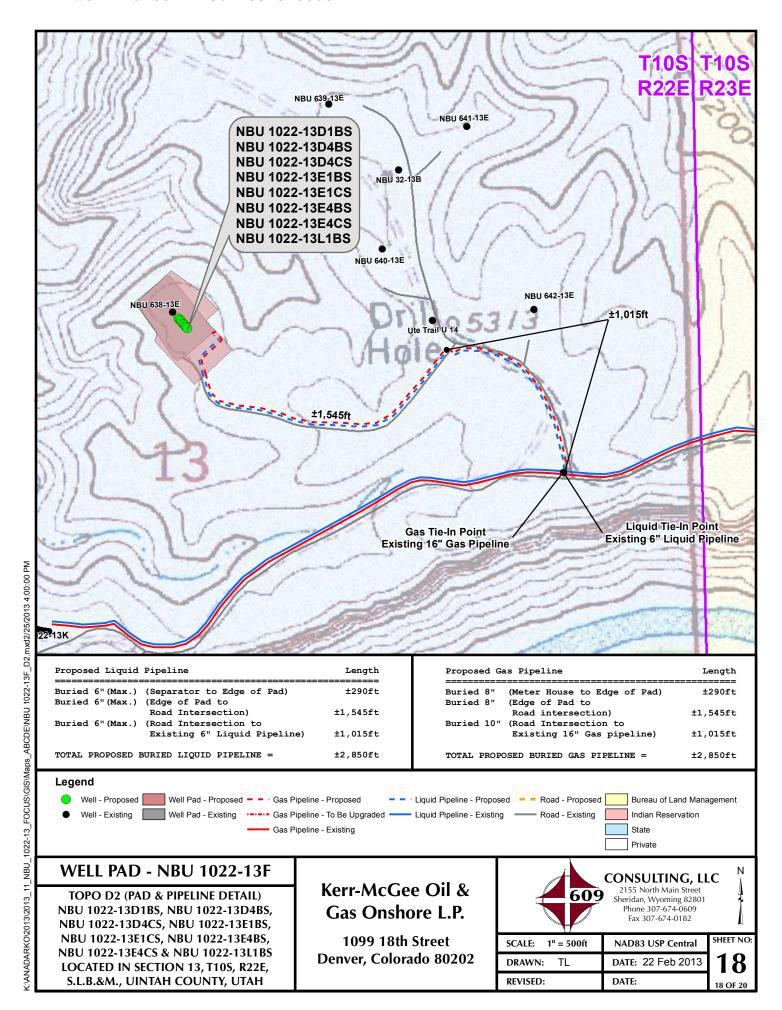
DATE PHOTOS TAKEN: 2-14-13	PHOTOS TAKEN BY: W.W.	SHEET NO:
DATE DRAWN: 2-14-13	DRAWN BY: T.J.R.	13
Date Last Revised:		13 OF 20

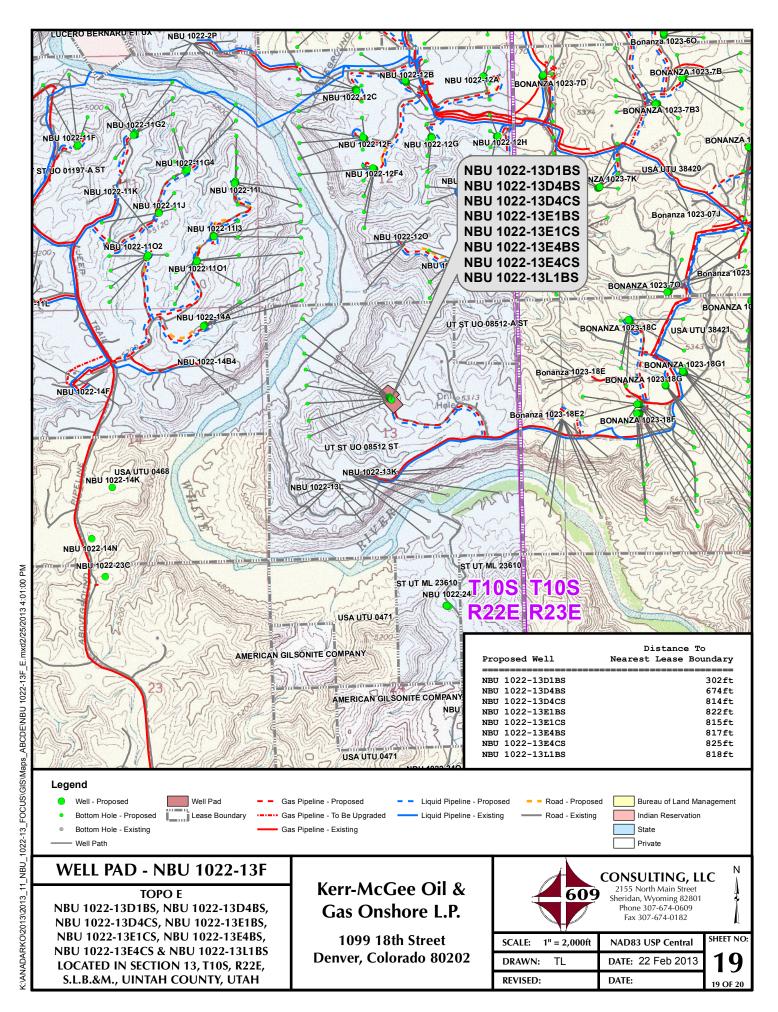












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 1022-13F WELLS – NBU 1022-13D1BS, NBU 1022-13D4BS, NBU 1022-13D4CS, NBU 1022-13E1BS, NBU 1022-13E1CS, NBU 1022-13E4BS, NBU 1022-13E4CS & NBU 1022-13L1BS Section 13, T10S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 6.5 miles to a Class D County Road to the south. Exit right and proceed in a southerly, then southwesterly, then westerly direction along the Class D County Road approximately 1.3 miles to a second Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the second Class D County Road approximately 0.2 miles to a service to the southwest. Exit left and proceed in a southwesterly, then northerly direction along the service road approximately 0.3 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 50.6 miles in a southerly direction.

SHEET 20 OF 20

API Well Number: 43047 5 26 Jec 1: OUT (ABI - UTM (feet), NAD27, Zone 12N

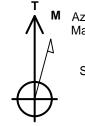
Scientific Drilling

Site: NBU 1022-13F PAD Well: NBU 1022-13D4BS

Wellbore: OH

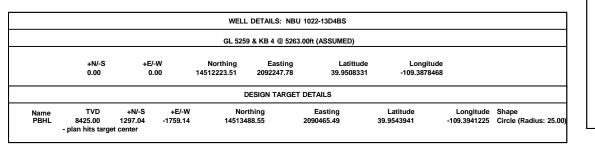
Design: PLAN #1 PRELIMINARY

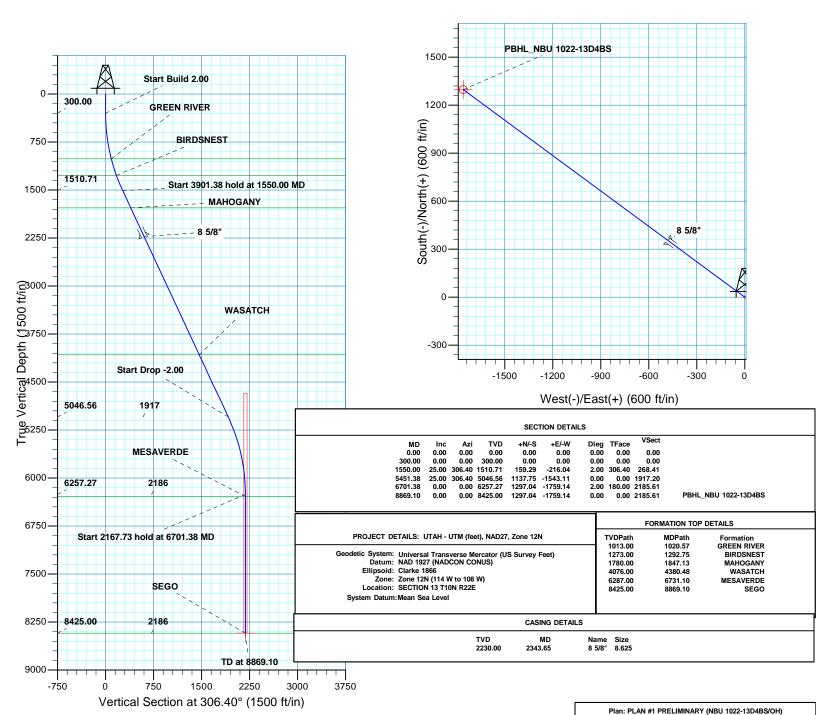




Azimuths to True North Magnetic North: 10.79°

Magnetic Field Strength: 52138.6snT Dip Angle: 65.80° Date: 2013/03/26 Model: IGRF2010







US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 1022-13F PAD NBU 1022-13D4BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

26 March, 2013





SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-13F PAD

 Well:
 NBU 1022-13D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-13D4BS

GL 5259 & KB 4 @ 5263.00ft (ASSUMED) GL 5259 & KB 4 @ 5263.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

 Geo Datum:
 NAD 1927 (NADCON CONUS)

 Map Zone:
 Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 1022-13F PAD, SECTION 13 T10N R22E

Northing: 14,512,230.69 usft Site Position: Latitude: 39.9508531 From: Lat/Long Easting: 2,092,241.20 usft Longitude: -109.3878698 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.04 13.200 in

System Datum:

Well NBU 1022-13D4BS, 1967 FNL 2537 FWL

 Well Position
 +N/-S
 -7.28 ft
 Northing:
 14,512,223.52 usft
 Latitude:
 39.9508331

 +E/-W
 6.45 ft
 Easting:
 2,092,247.78 usft
 Longitude:
 -109.3878468

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 5,259.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 2013/03/26 10.79 65.80 52,139

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 306.40

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,550.00	25.00	306.40	1,510.71	159.29	-216.04	2.00	2.00	0.00	306.40	
5,451.38	25.00	306.40	5,046.56	1,137.75	-1,543.11	0.00	0.00	0.00	0.00	
6,701.38	0.00	0.00	6,257.27	1,297.04	-1,759.14	2.00	-2.00	0.00	180.00	
8,869.10	0.00	0.00	8,425.00	1,297.04	-1,759.14	0.00	0.00	0.00	0.00 PE	3HL_NBU 1022-13



SDI **Planning Report**



EDM5000-RobertS-Local Database:

Company: US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

Project: NBU 1022-13F PAD Site:

Well: NBU 1022-13D4BS

Wellbore: ОН Design:

PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 1022-13D4BS

GL 5259 & KB 4 @ 5263.00ft (ASSUMED) GL 5259 & KB 4 @ 5263.00ft (ASSUMED)

True

Minimum Curvature

Design:	PLAN #1 PRE	LIMINARY							
Planned Survey									
Flaillieu Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2	2.00								
400.00	2.00	306.40	399.98	1.04	-1.40	1.75	2.00	2.00	0.00
500.00	4.00	306.40	499.84	4.14	-5.62	6.98	2.00	2.00	0.00
600.00	6.00	306.40	599.45	9.31	-12.63	15.69	2.00	2.00	0.00
700.00	8.00	306.40	698.70	16.55	-22.44	27.88	2.00	2.00	0.00
800.00	10.00	306.40	797.47	25.83	-35.03	43.52	2.00	2.00	0.00
900.00	12.00	306.40	895.62	37.15	-50.39	62.60	2.00	2.00	0.00
1,000.00	14.00	306.40	993.06	50.50	-68.49	85.10	2.00	2.00	0.00
1,020.57	14.41	306.40	1,013.00	53.50	-72.56	90.15	2.00	2.00	0.00
GREEN RIVE									
1,100.00	16.00	306.40	1,089.64	65.86	-89.32	110.98	2.00	2.00	0.00
1,200.00	18.00	306.40	1,185.27	83.21	-112.85	140.21	2.00	2.00	0.00
1,292.75	19.86	306.40	1,273.00	101.06	-137.07	170.30	2.00	2.00	0.00
BIRDSNEST									
1,300.00	20.00	306.40	1,279.82	102.53	-139.06	172.77	2.00	2.00	0.00
1,400.00	22.00	306.40	1,373.17	123.79	-167.90	208.60	2.00	2.00	0.00
1,500.00	24.00	306.40	1,465.21	146.98	-199.35	247.67	2.00	2.00	0.00
1,550.00	25.00	306.40	1,510.71	159.29	-216.04	268.41	2.00	2.00	0.00
Start 3901.38	8 hold at 1550.00	MD							
1,600.00	25.00	306.40	1,556.03	171.83	-233.04	289.54	0.00	0.00	0.00
1,700.00	25.00	306.40	1,646.66	196.91	-267.06	331.80	0.00	0.00	0.00
1,800.00	25.00	306.40	1,737.29	221.99	-301.07	374.06	0.00	0.00	0.00
1,847.13	25.00	306.40	1,780.00	233.80	-317.10	393.98	0.00	0.00	0.00
MAHOGANY		000.10	1,700.00	200.00	017.10	000.00	0.00	0.00	0.00
1,900.00	25.00	306.40	1,827.92	247.07	-335.09	416.32	0.00	0.00	0.00
2,000.00	25.00	306.40	1,918.55	272.15	-369.10	458.59	0.00	0.00	0.00
2,000.00		300.40	1,910.55		-309.10	430.39	0.00		
2,100.00	25.00	306.40	2,009.18	297.23	-403.12	500.85	0.00	0.00	0.00
2,200.00	25.00	306.40	2,099.81	322.31	-437.14	543.11	0.00	0.00	0.00
2,300.00	25.00	306.40	2,190.44	347.39	-471.15	585.37	0.00	0.00	0.00
2,343.65	25.00	306.40	2,230.00	358.33	-486.00	603.82	0.00	0.00	0.00
8 5/8"									
2,400.00	25.00	306.40	2,281.07	372.47	-505.17	627.63	0.00	0.00	0.00
2,500.00	25.00	306.40	2,371.70	397.55	-539.18	669.90	0.00	0.00	0.00
2,600.00	25.00	306.40	2,462.34	422.63	-573.20	712.16	0.00	0.00	0.00
2,700.00	25.00	306.40	2,552.97	447.71	-607.21	754.42	0.00	0.00	0.00
2,800.00	25.00	306.40	2,643.60	472.79	-641.23	796.68	0.00	0.00	0.00
2,900.00	25.00	306.40	2,734.23	497.87	-675.24	838.94	0.00	0.00	0.00
3,000.00	25.00	306.40	2,824.86	522.95	-709.26	881.20	0.00	0.00	0.00
3,100.00	25.00	306.40	2,915.49	548.03	-743.28	923.47	0.00	0.00	0.00
3,200.00	25.00	306.40	3,006.12	573.11	-777.29	965.73	0.00	0.00	0.00
3,300.00	25.00	306.40	3,096.75	598.19	-811.31	1,007.99	0.00	0.00	0.00
3,400.00	25.00	306.40	3,187.38	623.27	-845.32	1,050.25	0.00	0.00	0.00
3,500.00	25.00	306.40	3,278.01	648.35	-879.34	1,092.51	0.00	0.00	0.00
3,600.00	25.00	306.40	3,368.64	673.43	-913.35	1,134.78	0.00	0.00	0.00
3,700.00	25.00	306.40	3,459.27	698.51	-947.37	1,177.04	0.00	0.00	0.00
3,800.00	25.00	306.40	3,549.90	723.59	-981.38	1,219.30	0.00	0.00	0.00
3,900.00	25.00	306.40	3,640.54	748.67	-1,015.40	1,261.56	0.00	0.00	0.00
4,000.00	25.00	306.40	3,731.17	773.75	-1,049.41	1,303.82	0.00	0.00	0.00
4,100.00	25.00	306.40	3,821.80	798.83	-1,083.43	1,346.09	0.00	0.00	0.00
7,100.00	20.00	500.70	0,021.00	, 50.00	1,000.40	1,0 70.00	0.00	0.00	0.00



SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-13F PAD

 Well:
 NBU 1022-13D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

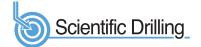
Well NBU 1022-13D4BS

GL 5259 & KB 4 @ 5263.00ft (ASSUMED) GL 5259 & KB 4 @ 5263.00ft (ASSUMED)

True

Minimum Curvature

l.	FLAN#IFIXE								
ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	25.00	306.40	3,912.43	823.91	-1,117.45	1,388.35	0.00	0.00	0.00
4,300.00	25.00	306.40	4,003.06	848.99	-1,151.46	1,430.61	0.00	0.00	0.00
4,380.48	25.00	306.40	4,076.00	869.17	-1,178.84	1,464.62	0.00	0.00	0.00
WASATCH			1,01000		.,	1,10110_			
	25.00	206.40	4 002 60	074.07	1 105 10	1 470 07	0.00	0.00	0.00
4,400.00	25.00	306.40	4,093.69	874.07	-1,185.48	1,472.87			
4,500.00	25.00	306.40	4,184.32	899.15	-1,219.49	1,515.13	0.00	0.00	0.00
4,600.00	25.00	306.40	4,274.95	924.23	-1,253.51	1,557.39	0.00	0.00	0.00
4,700.00	25.00	306.40	4,365.58	949.31	-1,287.52	1,599.66	0.00	0.00	0.00
4,800.00	25.00	306.40	4,456.21	974.39	-1,321.54	1,641.92	0.00	0.00	0.00
4,900.00	25.00	306.40	4,546.84	999.47	-1,355.55	1,684.18	0.00	0.00	0.00
5,000.00	25.00	306.40	4,637.47	1,024.55	-1,389.57	1,726.44	0.00	0.00	0.00
5,100.00	25.00	306.40	4,728.10	1,049.63	-1,423.59	1,768.70	0.00	0.00	0.00
5,200.00	25.00	306.40	4,818.74	1,074.71	-1,457.60	1,810.97	0.00	0.00	0.00
5,300.00	25.00	306.40	4,909.37	1,099.79	-1,491.62	1,853.23	0.00	0.00	0.00
5,400.00	25.00	306.40	5,000.00	1,124.87	-1,525.63	1,895.49	0.00	0.00	0.00
5,451.38	25.00	306.40	5,046.56	1,137.75	-1,543.11	1,917.20	0.00	0.00	0.00
Start Drop -		000.10	F 000 00	4.440.70	4 550 05	4.007.00	2.22	2.22	2.25
5,500.00	24.03	306.40	5,090.80	1,149.72	-1,559.35	1,937.38	2.00	-2.00	0.00
5,600.00	22.03	306.40	5,182.83	1,172.94	-1,590.83	1,976.49	2.00	-2.00	0.00
5,700.00	20.03	306.40	5,276.16	1,194.23	-1,619.71	2,012.37	2.00	-2.00	0.00
5,800.00	18.03	306.40	5,370.69	1,213.58	-1,645.95	2,044.97	2.00	-2.00	0.00
5,900.00	16.03	306.40	5,466.31	1,230.95	-1,669.51	2,074.25	2.00	-2.00	0.00
6,000.00	14.03	306.40	5,562.88	1,246.34	-1,690.38	2,100.18	2.00	-2.00	0.00
6,100.00	12.03	306.40	5,660.30	1,259.72	-1,708.53	2,122.72	2.00	-2.00	0.00
6,200.00	10.03	306.40	5,758.45	1,271.07	-1,723.92	2,141.85	2.00	-2.00	0.00
	8.03	306.40					2.00	-2.00	0.00
6,300.00			5,857.21	1,280.38	-1,736.55 1,746.40	2,157.54		-2.00 -2.00	
6,400.00	6.03	306.40	5,956.45	1,287.64	-1,746.40	2,169.77	2.00		0.00
6,500.00	4.03	306.40	6,056.06	1,292.84	-1,753.45	2,178.53	2.00	-2.00	0.00
6,600.00	2.03	306.40	6,155.92	1,295.97	-1,757.70	2,183.82	2.00	-2.00	0.00
6,700.00	0.03	306.40	6,255.90	1,297.04	-1,759.14	2,185.61	2.00	-2.00	0.00
6,701.38	0.00	0.00	6,257.27	1,297.04	-1,759.14	2,185.61	2.00	-2.00	0.00
	73 hold at 6701.3								
6,731.10	0.00	0.00	6,287.00	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
MESAVERD									
6,800.00	0.00	0.00	6,355.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
6,900.00	0.00	0.00	6,455.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,000.00	0.00	0.00	6,555.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,100.00	0.00	0.00	6,655.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,200.00	0.00	0.00	6,755.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,300.00	0.00	0.00	6,855.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,400.00	0.00	0.00	6,955.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,500.00	0.00	0.00	7,055.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,600.00	0.00	0.00	7,155.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,700.00	0.00	0.00	7,255.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,800.00	0.00	0.00	7,355.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
7,900.00	0.00	0.00	7,455.90	1,297.04	-1,759.14 1,750.14	2,185.61	0.00	0.00	0.00
8,000.00	0.00	0.00	7,555.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
8,100.00	0.00	0.00	7,655.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
8,200.00	0.00	0.00	7,755.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
8,300.00	0.00	0.00	7,855.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
8,400.00	0.00	0.00	7,955.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
8,500.00	0.00	0.00	8,055.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00
9 600 00	0.00	0.00			1 750 14		0.00	0.00	0.00
8,600.00	0.00	0.00	8,155.90	1,297.04	-1,759.14	2,185.61	0.00	0.00	0.00



SDIPlanning Report



Database: EDM5000-RobertS-Local Company: US ROCKIES REGION P

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-13F PAD

 Well:
 NBU 1022-13D4BS

Wellbore: OH

Project:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-13D4BS

GL 5259 & KB 4 @ 5263.00ft (ASSUMED) GL 5259 & KB 4 @ 5263.00ft (ASSUMED)

True

Minimum Curvature

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00 8,800.00 8,869.10	0.00 0.00 0.00	0.00 0.00 0.00	8,255.90 8,355.90 8,425.00	1,297.04 1,297.04 1,297.04	-1,759.14 -1,759.14 -1,759.14	2,185.61 2,185.61 2,185.61	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
TD at 8869.1	0 - SEGO - PBHI	_NBU 1022-13I	D4BS						

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1022-13D4E - plan hits target cen - Circle (radius 25.00		0.00	8,425.00	1,297.04	-1,759.14	14,513,488.55	2,090,465.49	39.9543941	-109.3941225

Casing Points						
	Measured	Vertical		Casing	Hole	
	Depth	Depth		Diameter	Diameter	
	(ft)	(ft)	Name	(in)	(in)	
	2,343.65	2,230.00 8 5/8"		8.625	11.000	

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,020.57	1,013.00	GREEN RIVER				
	1,292.75	1,273.00	BIRDSNEST				
	1,847.13	1,780.00	MAHOGANY				
	4,380.48	4,076.00	WASATCH				
	6,731.10	6,287.00	MESAVERDE				
	8,869.10	8,425.00	SEGO				

Plan Annotations					
Mea	asured	Vertical	Local Coor	dinates	
D	epth	Depth	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	(ft)	Comment
	300.00	300.00	0.00	0.00	Start Build 2.00
1	,550.00	1,510.71	159.29	-216.04	Start 3901.38 hold at 1550.00 MD
5	5,451.38	5,046.56	1,137.75	-1,543.11	Start Drop -2.00
6	3,701.38	6,257.27	1,297.04	-1,759.14	Start 2167.73 hold at 6701.38 MD
8	3,869.10	8,425.00	1,297.04	-1,759.14	TD at 8869.10

Surface Use Plan of Operations 1 of 9

NBU 1022-13F Pad

	NBU 1022-13D1BS		
Surface:	1959 FNL / 2531 FWL	SENW	Lot
BHL:	302 FNL / 824 FWL	NWNW	Lot
	NBU 1022-13D4BS		
Surface:	1967 FNL / 2537 FWL	SENW	Lot
BHL:	674 FNL / 824 FWL	NWNW	Lot
	NBU 1022-13D4CS		
Surface:	1974 FNL / 2544 FWL	SENW	Lot
BHL:	1016 FNL / 814 FWL	NWNW	Lot
	NBU 1022-13E1BS		
Surface:	1982 FNL / 2550 FWL	SENW	Lot
BHL:	1356 FNL / 822 FWL	SWNW	Lot
	NBU 1022-13E1CS		
Surface:	1989 FNL / 2556 FWL	SENW	Lot
BHL:	1689 FNL / 815 FWL	SWNW	Lot
	NBU 1022-13E4BS		
Surface:	1997 FNL / 2563 FWL	SENW	Lot
BHL:	2055 FNL / 817 FWL	SWNW	Lot
	NBU 1022-13E4CS		
Surface:	2004 FNL / 2569 FWL	SENW	Lot
BHL:	2411 FNL / 825 FWL	SWNW	Lot
	NBU 1022-13L1BS		
Surface:	2012 FNL / 2575 FWL	SENW	Lot
BHL:	2559 FSL / 818 FWL	NWSW	Lot

Pad: NBU 1022-13F PAD

Section 13 T10S R22E Mineral Lease: UT ST UO 8512 ST

Uintah County, Utah Operator: Kerr-McGee Oil & Gas Onshore LP NBU 1022-13F Pad

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWs and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road is proposed (see Topo Map B).

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 638-13E, which is a producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of April 22, 2013.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks).

Surface Use Plan of Operations 3 of 9

NBU 1022-13F Pad

The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Gathering Facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is ± 2850 ' and the individual segments are broken up as follows:

- ±290' (0.05 miles) –Proposed 8" buried gas pipeline from the meter to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1545' (0.29 miles) –Proposed 8" buried gas pipeline from the edge of the pad to the road intersection. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1015' (0.19 miles) –Proposed 10" buried gas pipeline from the road intersection to the existing 16" Gas Pipeline. Please refer to Topo D2 Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 2,850$ 'and the individual segments are broken up as follows:

- $\pm 290'$ (0.05 miles) –Proposed 6" buried liquid pipeline from the seperator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1545' (0.29 miles) –Proposed 6" buried liquid pipeline from the edge of the pad to the road intersection. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1015' (0.19 miles) –Proposed 6" buried liquid pipeline from the road intersection to the existing 16" Gas Pipeline. Please refer to Topo D2 Pad and Pipeline Detail.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Surface Use Plan of Operations 4 of 9

NBU 1022-13F Pad

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. <u>Location and Type of Water Supply</u>:

Water for drilling purposes will be obtained from one of the following sources:

JD Field Services:

Green River: 1087' FSL & 1020' FEL, Sec. 15 – T2N – R22E

RN Industries:

High Pressure: 705' FNL & 675' FWL, Sec. 1 – T6S – R22E

1057' FNL & 390' FWL, Sec. 1 – T6S – R22E 1239' FNL & 52' FEL, Sec. 6 – T6S – R23E

White River: 501' FNL & 1676' FEL, Sec. 9 – T8S – R20E

471' FNL & 1676' FEL, Sec. 9 – T8S – R20E

900' FNL & 550' FEL, Sec. 35 - T9S - R22E

200' FNL & 950' FEL, Sec. 2 - T10S - R22E

275' FSL & 2275' FEL, Sec. 2-T10S-R22E

122' FSL & 1350' FEL, Sec. 11 – T10S – R22E

1670' FSL & 500' FEL, Sec. 12 – T10S – R22E

959' FNL & 705' FEL, Sec. 13 – T10S – R22E 600' FSL & 900' FEL, Sec. 13 – T10S – R22E

Water Plant: 481' FNL & 2176' FEL, Sec. 9 – T8S – R20E

471' FNL & 2176' FEL, Sec. 9 – T8S – R20E

Frog Pond: 4820' FNL & 1200' FWL, Sec. 33 – T8S – R20E

4850' FNL & 700' FWL, Sec. 33 – T8S – R20E

Blue Tanks: 200' FNL & 405' FEL, Sec. 32 – T4S – R3E

Water will be hauled to location over the roads marked on Maps A and B.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

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NBU 1022-13F Pad

F. Methods for Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Unless otherwise approved, no oil or other oil based drill additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water, biodegradable polymer soap, bentonite clay, and /or non-toxic additives will be used in the system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions, or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be release into the pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternative is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as the hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods. (e.g. solidification)

Any additional pits necessary for subsequent operations, such as temporary flare pits, or workover pits, will contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed

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NBU 1022-13F Pad

within 180 days of completion of the work.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

NBU 1022-13F Pad

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/ egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or NAD 83 latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface

NBU 1022-13F Pad Surface Use Plan of Operations 8 of 9

reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA 675 East 500 South, Suite 500 Salt Lake City, UT 84102

L. <u>Other Information</u>:

None

M. <u>Lessee's or Operators' Representative & Certification</u>:

Cara Mahler Regulatory Analyst I Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

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NBU 1022-13F Pad

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

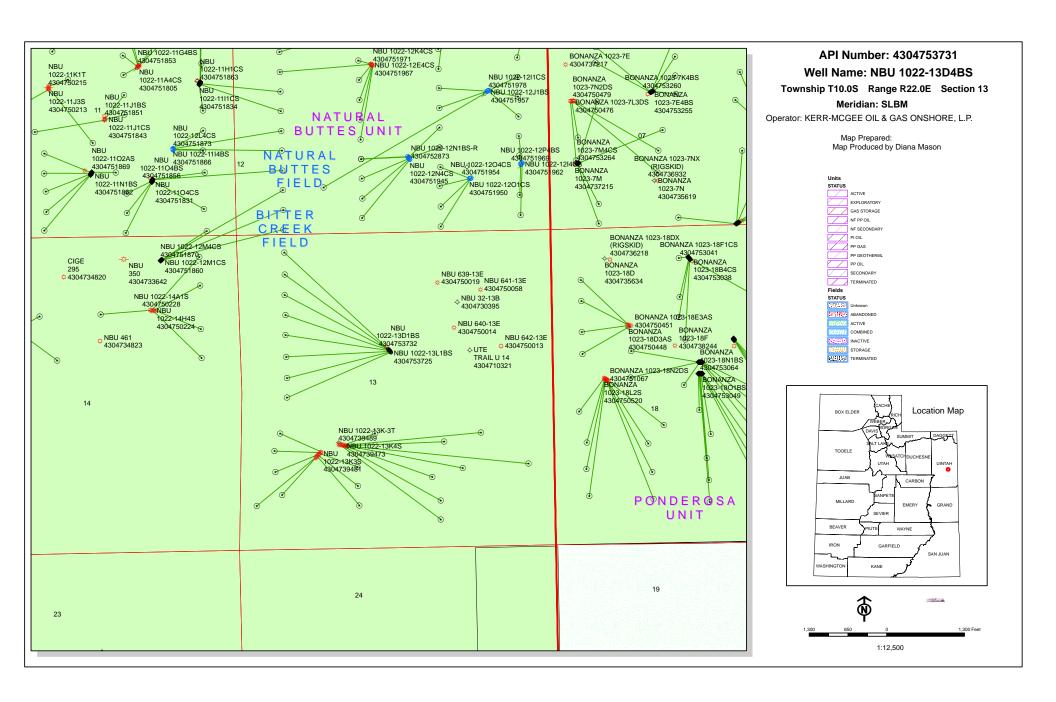
The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Ca	<u>A</u>	May 2, 2013	_
Cara Mahler		Date	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

May 7, 2013

Memorandum

To: Assistant Field Office Manager Minerals,

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-13F

43-047-53725	NBU	1022-13L1BS BHL		R22E R22E		
43-047-53726	NBU	1022-13E4CS BHL		 R22E R22E		
43-047-53727	NBU	1022-13E4BS BHL		R22E R22E		
43-047-53728	NBU	1022-13E1BS BHL		R22E R22E		
43-047-53729	NBU	1022-13E1CS BHL		 R22E R22E		
43-047-53730	NBU	1022-13D4CS BHL		R22E R22E		
43-047-53731	NBU	1022-13D4BS BHL		 R22E R22E		
43-047-53732	NBU	1022-13D1BS BHL		R22E R22E		

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L Coulthard

Dix. cn=Michael L. Coulthard, o=Bureau of Land Management,
Ductor 2013.05.07 14:1958-06:00'

Date: 2013.05.07 14:1958-06:00'

bcc: File - Natural Buttes Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:5-7-13

RECEIVED: May 07, 2013

State of Utah Mail - Anadarko Well Approval



Diana Mason <dianawhitney@utah.gov>

Anadarko Well Approval

Jeff Conley < jconley@utah.gov>

Fri, May 17, 2013 at 12:59 PM

To: Jim Davis <jimdavis1@utah.gov>, Diana Mason <dianawhitney@utah.gov>, Brad Hill <bradhill@utah.gov>, "Mahler, Cara" <cara.mahler@anadarko.com>, julie.jacobson@anadarko.com

Hello,

The following wells have been approved by SITLA for both arch and paleo:

(4304753725) NBU 1022-13L1BS (4304753726) NBU 1022-13E4CS (4304753727) NBU 1022-13E4BS (4304753728) NBU 1022-13E1BS (4304753729) NBU 1022-13E1CS (4304753730) NBU 1022-13D4CS (4304753731) NBU 1022-13D4BS (4304753732) NBU 1022-13D1BS

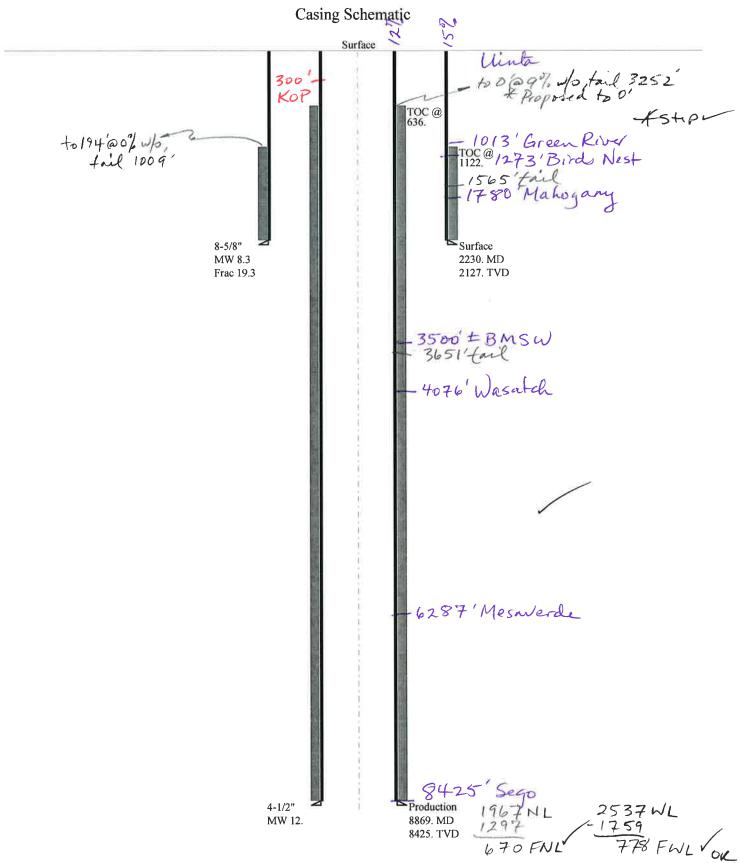
Thanks,

Jeff Conley
SITLA Resource Specialist
jconley@utah.gov
801-538-5157

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1022-13D4BS 43047537310000

Well Name		KERR-MCGEE C	IL & GAS ONSHO	RE, L	.P. NBU 1022	2-13D4B	43047	53		
String		Surf	Prod					ī		
Casing Size(")		8.625	4.500					i		
Setting Depth (TVD)		2127	8425					i		
Previous Shoe Setting Deptl	h (TVD)	0	2127							
Max Mud Weight (ppg)		8.3	12.0	Ē				i		
BOPE Proposed (psi)		500	5000	Ē				i		
Casing Internal Yield (psi)		3390	7780	Ē				i		
Operators Max Anticipated	Pressure (psi)	5139	11.7	Ē				i		
Calculations		C				0	.625	_		
Max BHP (psi)		Surf Stri	52*Setting D)entl	h*MW-		.025		_	
(psi)			52 Setting E	усри	11111	921	-	BOPE A	dea	uate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Sett	ing I	Depth)=	666	=	NO	1	air bowl
MASP (Gas/Mud) (psi)			P-(0.22*Sett		- 1	453	=	YES	=	uir bowi
(- (4122 2711			453	=	!	ull F	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth -	- Previous Sh	noe I	Depth)=	453	=	NO	_	
Required Casing/BOPE Tes	t Pressure=					2127	=	psi	_	
*Max Pressure Allowed @ 1		Shoe=		_			=		Ass	umes 1psi/ft frac gradient
Max Tressure Milowed C 1	Tevious cusing i					0		PSI	1100	amos 1931/11 True gradient
Calculations		Prod Stri	ing			4	.500	"		
Max BHP (psi)		.0	52*Setting D	Deptl	h*MW=	5257				
								BOPE A	deg	uate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Sett	ing I	Depth)=	4246		YES		5M BOPE, pipe and blind rams, kill lines
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		Depth)=	3404		YES				
								*Can F	ull E	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	noe I	Depth)=	3871		NO		
Required Casing/BOPE Tes	t Pressure=					5000		psi		
*Max Pressure Allowed @ l	Previous Casing S	Shoe=				2127		psi *	Ass	umes 1psi/ft frac gradient
Calculations		String						"		
Max BHP (psi)			52*Setting D	Deptl	h*MW=		=			
							_	BOPE A	deg	uate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Sett	ing I	Depth)=		=	NO		
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Sett	ing I	Depth)=		一	NO	=	
								*Can F	ull F	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth -	Previous Sh	noe I	Depth)=			NO	\equiv	
Required Casing/BOPE Tes	t Pressure=							psi		
*Max Pressure Allowed @ l	Previous Casing S	Shoe=						psi *	Ass	umes 1psi/ft frac gradient
Calculations		String						"		
Max BHP (psi)			52*Setting D	Deptl	h*MW=		=		_	
(r)							=	BOPE A	dec	uate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Sett	ing I	Depth)=		=	NO		
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Sett	ing I	Depth)=		=	NO	=	<u>'</u>
. , , , ,					- 1		-	1	ull F	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth -	- Previous Sh	noe I	Depth)=		=	NO	-	i
Required Casing/BOPE Tes	st Pressure=						=	psi	_	,
*Max Pressure Allowed @ 1		Shoe=					=		Ass	umes 1psi/ft frac gradient
								•		1 0

43047537310000 NBU 1022-13D4BS



Well name:

43047537310000 NBU 1022-13D4BS

Operator:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

String type:

Surface

Project ID:

43-047-53731

Location:

UINTAH COUNTY

Minimum design factors: **Environment:**

Collapse: **Collapse**

Mud weight: 8.330 ppg

Design is based on evacuated pipe.

Design factor 1.125

H2S considered? Surface temperature:

No 74 °F

Bottom hole temperature: Temperature gradient:

104 °F

Minimum section length:

1.40 °F/100ft

100 ft

Burst: Design factor

1.00 Cement top: 1,122 ft

300 ft

556 ft

25°

2 °/100ft

Burst

Max anticipated surface

No backup mud specified.

pressure: Internal gradient:

Calculated BHP

Design parameters:

1,872 psi 0.120 psi/ft

2.127 psi

Tension: 8 Round STC:

Neutral point:

1.80 (J) 1.70 (J) 8 Round LTC:

1.60 (J) Buttress: 1.50 (J) Premium: Body yield: 1.50 (B)

Tension is based on buoyed weight.

1,942 ft

Inclination at shoe:

Kick-off point

Departure at shoe:

Maximum dogleg:

Re subsequent strings: Next setting depth: 8.425 ft Next mud weight: 12.000 ppg Next setting BHP: 5,252 psi

Directional Info - Build & Hold

Fracture mud wt: Fracture depth: Injection pressure: 19.250 ppg 2,127 ft 2,127 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2230	8.625	28.00	I-55	LT&C	2127	2230	7.892	88308
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	920	1880	2.043	2127	3390	1.59	52.2	348	6.66 J

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Mining by:

Phone: 801 538-5357 FAX: 801-359-3940

Date: June 4,2013 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2127 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:

43047537310000 NBU 1022-13D4BS

Operator:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

String type:

Production

Project ID:

43-047-53731

Location:

UINTAH COUNTY

Design parameters:	Minimum design factors:	Environment:
Collanse	Collanse:	H2S considered?

<u>Collapse</u>

Mud weight: 12.000 ppg Design is based on evacuated pipe.

mapse:

1.125 Design factor

No 74 °F Surface temperature: Bottom hole temperature: 192 °F

1.40 °F/100ft Temperature gradient: Minimum section length: 1,000 ft

Burst:

Tension:

Buttress:

8 Round STC:

8 Round LTC:

1.00 Design factor

Cement top:

636 ft

Burst

Max anticipated surface

pressure: Internal gradient: Calculated BHP

3,398 psi 0.220 psi/ft

5,252 psi

No backup mud specified.

Premium: Body yield: 1.80 (J) 1.60 (J) 1.50 (J) 1.60 (B)

1.80 (J)

Directional Info - Build & Hold

Kick-off point 300 ft Departure at shoe: 2186 ft Maximum dogleg: 2 °/100ft

Inclination at shoe:

0°

Tension is based on buoyed weight.

Neutral point:

7,358 ft

Estimated cost:

183,071 (\$)

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost
	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
2	5000	4.5	11.60	I-80	DQX	4637	5000	3.875	132000
1	3869	4.5	11.60	1-80	LT&C	8425	8869	3.875	51071
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
-	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
2	2891	6159	2.131	4419	7780	1.76	80.2	267	3.33 J
1	5252	6360	1.211	5252	7780	1.48	26.4	212	8.03 J

Prepared

by:

Helen Sadik-Macdonald

Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: June 4,2013 Salt Lake City, Utah

Collapse is based on a vertical depth of 8425 ft, a mud weight of 12 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.

Well Name NBU 1022-13D4BS

API Number 43047537310000 APD No 7903 Field/Unit NATURAL BUTTES

Location: 1/4,1/4 SENW Sec 13 Tw 10.0S Rng 22.0E 1967 FNL 2537 FWL

GPS Coord (UTM) 637647 4423535 Surface Owner

Participants

Cara Mahler, Chantill Recker, Howdy Brown, Hal Blanchard, Doreen Green, Brad Burman, Denise Kirsch, Doyle Holmes, (Anadarko). Mitch Batty (Timberline). Jim Davis (SITLA). David Hackford (DOGM).

Regional/Local Setting & Topography

The general area is in the southeast end of the Natural Buttes Unit, and contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River is 2500 feet. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 35 air miles and 59 road miles to the northwest. The area is accessed by Utah State, Uintah County and oilfield development Roads.

This site is on an existing location which has an existing gas well (The NBU 638-13E) Very little new construction will be necessary. This location runs in a northwest-southeast direction along the top of a narrow flat topped ridge which is restricted along the north and south edge by a steep break-off. Due to the formations in the area and the short distance to the White River, a closed loop mud system shall be used to drill this well.

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA was invited to the pre-site evaluation. He was present. Because this site is on an existing location, DWR's representative chose not to attend.

Surface Use Plan

Current Surface Use

Grazing Wildlfe Habitat Existing Well Pad

New Road
Miles

Well Pad

Src Const Material

Surface Formation

0 Width 352 Length 450 Onsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Identifiable vegetation consists of black sagebrush, Gardner saltbrush, greasewood, horsebrush, and broom snakeweed.

Antelope, coyote, small mammals and birds. Winter domestic sheep grazing.

.

Soil Type and Characteristics

Rocky sandy clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ranking					
Distance to Groundwater (feet)	100 to 200	5				
Distance to Surface Water (feet)	>1000	0				
Dist. Nearest Municipal Well (ft)	>5280	0				
Distance to Other Wells (feet)		20				
Native Soil Type	High permeability	20				
Fluid Type	Fresh Water	5				
Drill Cuttings	Normal Rock	0				
Annual Precipitation (inches)		0				
Affected Populations						
Presence Nearby Utility Conduits	Not Present	0				
	Final Score	50	1 Sensitivity Level			

Characteristics / Requirements

A closed loop mud system will be used while drilling this well. After the well is drilled. A fresh water pit will be constructed to hold frack fluid. This pit will have a felt subliner and a 30 mil plastic liner, and will be padded with drilled cuttings.

Closed Loop Mud Required? Y Liner Required? Liner Thickness Pit Underlayment Required?

Other Observations / Comments

This well will be one of eight new wells which will be drilled on this pad. There is also an existing gas well on this pad. It is the NBU 638-13E.

David Hackford **Evaluator**

5/14/2013 **Date / Time**

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner CBM
7903	43047537310000	SITLA	GW	S No
Operator	KERR-MCGEE OIL & GAS	ONSHORE, L.P.	Surface Owner-A	APD
Well Name	NBU 1022-13D4BS		Unit	NATURAL BUTTES
Field	NATURAL BUTTES		Type of Work	DRILL
Location	SENW 13 10S 22E	S 1967 FNL	2537 FWL GPS C	Coord
Location	(UTM) 637644E 4423	537N		

Geologic Statement of Basis

Kerr McGee proposes to set 2,340' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,500'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 13. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill 5/20/2013
APD Evaluator Date / Time

Surface Statement of Basis

The general area is in the southeast end of the Natural Buttes Unit, and contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River is 2500 feet. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 35 air miles and 59 road miles to the northwest. The area is accessed by Utah State, Uintah County and oilfield development Roads.

A closed loop mud system will be used to drill this well. Drilled cuttings will be stored on 30 mil liners located on the north and southeast sides of the location. After all eight proposed wells are drilled, the cuttings will be used to pad a fresh water frack pit. This pit will also be lined with a felt sub-liner and a 30 mill plastic liner. Jim Davis with SITLA approved this plan.

Daniel Emmet represented the Utah Division of Wildlife Resources, but did not attend the presite because very little new construction will be necessary to build this pad location.

David Hackford 5/14/2013
Onsite Evaluator Date / Time

Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A closed loop mud circulation system is required for this location.

Pits A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in a fresh water pit that shall be constructed after all new wells on this pad are

drilled. This pit shall be padded with drilled cuttings and used to store frack fluid.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/3/2013 API NO. ASSIGNED: 43047537310000

WELL NAME: NBU 1022-13D4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6029

CONTACT: Cara Mahler

PROPOSED LOCATION: SENW 13 100S 220E Permit Tech Review:

> SURFACE: 1967 FNL 2537 FWL **Engineering Review:**

> **BOTTOM: 0674 FNL 0824 FWL** Geology Review:

COUNTY: UINTAH

LATITUDE: 39.95078 LONGITUDE: -109.38868 UTM SURF EASTINGS: 637644.00 NORTHINGS: 4423537.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UT ST UO 8512 ST PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: STATE/FEE - 22013542

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting **Fee Surface Agreement**

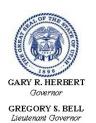
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 5 - Statement of Basis - bhill 12 - Cement Volume (3) - hmacdonald 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason 25 - Surface Casing - hmacdonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1022-13D4BS API Well Number: 43047537310000 Lease Number: UT ST UO 8512 ST

Surface Owner: STATE
Approval Date: 6/13/2013

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 4 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to surface as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
 - at http://oilgas.ogm.utah.gov
 - 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
 - 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
 - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days

- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
 Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

Sundry Number: 49948 API Well Number: 43047537310000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 8512 S		
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1022-13D4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047537310000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-	9. FIELD and POOL or WILDCAT: 1NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1967 FNL 2537 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENW Section: 1	HIP, RANGE, MERIDIAN: 13 Township: 10.0S Range: 22.0E Meri	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
Kerr-McGee Oil & G an extension to this	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show as Onshore, L.P. (Kerr-McGAPD for the maximum time with any questions and/or completed to the complete of the complete	ee) respectfully requests allowed. Please contact	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL ✓ APD EXTENSION OTHER: Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: April 16, 2014 By:
NAME (PLEASE PRINT)	PHONE NUME	BER TITLE	
Teena Paulo	720 929-6236	Staff Regulatory Specialist	
SIGNATURE N/A		DATE 4/14/2014	

Sundry Number: 49948 API Well Number: 43047537310000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047537310000

API: 43047537310000 Well Name: NBU 1022-13D4BS

Location: 1967 FNL 2537 FWL QTR SENW SEC 13 TWNP 100S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 6/13/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of thi proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? (Yes (No
• Has the approved source of water for drilling changed? Yes No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Teena Paulo Date: 4/14/2014

Sig

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 63183 API Well Number: 43047537310000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9	
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 8512 S			
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
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11. CHECI	K APPROPRIATE BOXES TO INDICATE N	NATURE OF NOTICE, REPOR	T, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR	
Approximate date work will start: 5/7/2015	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
3///2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Bate of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
 	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all p	ertinent details including dates, d	enths volumes etc	
Kerr-McGee Oil & G an extension to this	as Onshore, L.P. (Kerr-McGee) APD for the maximum time allowith any questions and/or com	respectfully requests owed. Please contact	Approved by the UMaly Division 55 oil, Gas and Mining	
			Date:	
			By: Dagfill	
NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUMBER 720 929-6808	TITLE Regulatory Specialist		
SIGNATURE		DATE		
N/A		5/7/2015		

Sundry Number: 63183 API Well Number: 43047537310000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047537310000

API: 43047537310000 **Well Name:** NBU 1022-13D4BS

Location: 1967 FNL 2537 FWL QTR SENW SEC 13 TWNP 100S RNG 220E MER S

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	ve there been any changes to the access route including ownership, or rightof- way, which could affect th oposed location? 🔘 Yes 📵 No
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	we there been any physical changes to the surface location or access route which will require a change in ans from what was discussed at the onsite evaluation? Q Yes 📵 No
• Is	bonding still in place, which covers this proposed well? 🌘 Yes 🔘 No
Signatur	e: Jennifer Thomas Date: 5/7/2015

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: May. 07, 2015



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 14, 2016

Kerr-McGee Oil & Gas Onshore, LP. 1099 18th Street, Suite 600 Denver, CO 80217

Re: APDs Rescinded for Kerr-McGee Oil & Gas Onshore, LP., Uintah County

Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of June 14, 2016.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

cc: Well File

Bureau of Land Management, Vernal



NBU 1022-13L1BS	43-047-53725
NBU 1022-13E4CS	43-047-53726
NBU 1022-13E4BS	43-047-53727
NBU 1022-13E1BS	43-047-53728
NBU 1022-13E1CS	43-047-53729
NBU 1022-13D4CS	43-047-53730
NBU 1022-13D4BS	43-047-53731
NBU 1022-13D1BS	43-047-53732